SERGEYEVA, V.F.; ZEBREVA, A.I.

Thermodynamic properties of tin amalgams. Zhur.neorg.khim. 10 no.8:1955 Ag 165. (MIRA 19:1)

1. Submitted May 9, 1964.

SERGETEVI, V.C.

Stock mossic. Nauch. dokl. vys. stkoly; biol. nauki no.4:89-92 '64.

(MIRA 17:12)

1. Rekomendovana Botenicheskim sadom Moskovskogo gosudarstvennogo
universitata im. M.V. Lomonosova.

VORONTSOV, Aleksey Ivanovich, dotsent; ZINOV'YEVA, Lyubov' Afanas'yevna, kandidat biologicheskikh nauk; SERCEYEVA, Valentina Georgiyevna; KHRAMTSOV, N.N., redaktor; SVETIAYEVA, A.S., redaktor izuatel'stva; BACHURINA, A.M., tekhnicheskiy redaktor

[Manual on forest protection for laboratory and practical exercises]
Posobie po lesozashchite dlia laboratorno-prakticheskikh zaniatii.
Moskva, Goslesbumizdat, 1956. 84 p. (MIRA 10:2)
(Forest protection)

CIA-RDP86-00513R001548120007-3 "APPROVED FOR RELEASE: 08/23/2000

THE BEST TO THE PARTY OF THE PA

Country : USSR

Category: Plant Diseases. Diseases of Forest Species. 0

Abs Jour : RZhBiol., No 6, 1959, No 25177

: Vorontsov, A. I.; Sergeyeva, V. G. Author : Higher School. Forest Engineering. Inst

: Role of Resin Canker in the Drying of Pine Title

Plantations.

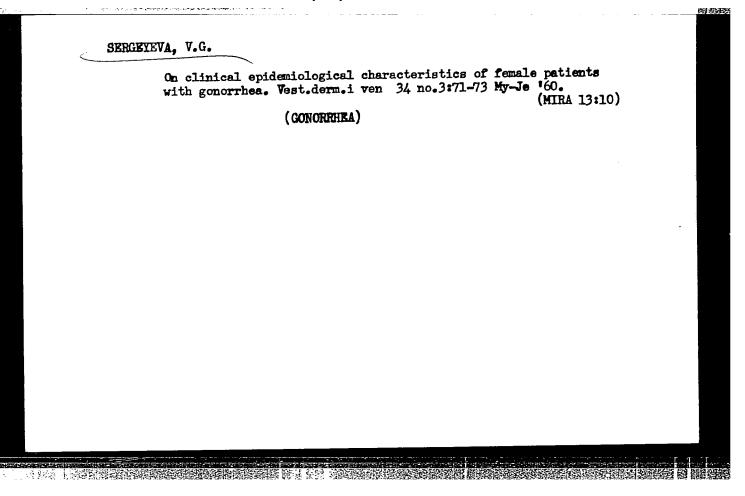
Orig Pub: Nauch. dokl. vyssh. shkoly. Lesoinzh. delo, 1958, No. 2, 14-17

Abstract: The primary cause in the drying of pine in Moskovskaya Obalst is resin canker (the patho-

genic agents are Peridermium pini and Cronartium flaccidum), which creates a favorable ground for settling of harmful insects (the bark beetle Ips acuminatus Gyll., etc. on the tree. Pure pine plantations, 30-50 years old,

are affected most by resin canker.

: 1/1 Card



15 2100 1142, 1273, 1153 S/080/61/034/001/017/020 A057/A129

AUTHORS: Sergeyeva, V.I., Glushkova, V.B., Keler, E.K.

TITLE: Physical and Technical Properties of Barium and Strontium Silicates

PERIODICAL: Zhurnal Prikladnoy Khimii, 1961, Vol. 34, No. 1, pp. 212-214

TEXT: Synthesis and sintering of single barium and strontium silicates with mineralization admixtures were investigated, and the physical and technical properties of the sintered samples were determined. Concretes containing these silicates have a greater resistance to sea water, they are heat-resistant and have X- and gamma-ray shielding properties. Besides, these silicates are used for special ceramics and phosphors. Nevertheless they are insufficiently studied. Hadley et al. [Ref.2: J.Applied Physics, 27, 11, 1384 (1956)] ficiently reported on some physical properties of barium orthosilicate. The briefly reported on some physical properties of barium orthosilicate. The present authors determined in previous investigations [Ref.3: ZhNKh, 1, 10, 2283 (1956), Ref.4: ZhPKh, 30, 4, 517 (1957)] formation conditions of barium- and strontium-silicates. In the present work the silicates were synthesized from dry silicic acid and barium- as well as strontium-carbonate in silite ovens Card 1/6

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22532 S/080/61/034/001/017/020 A057/A129

PROGRAMME AND PROGRAMMENT OF PROPERTY.

Physical and Technical Properties of Barium and Strontium Silicates

at $1,200^{\circ}-1,400^{\circ}$ C. The sintered material was milled by batches after each 4 hrs of sintering, briquetted (at 200 atm pressure) and sintered again to accelerate synthesis of the components. Duration of the total sintering process was 32-56 hrs. The synthesized silicates were sieved and articles were pressed at 500 atm adding 7-10% of kerosene by weight to decrease lamination of the material. The articles were fired at different temperatures, and the physical and mechanical properties were determined. In order to obtain samples of small porosity, mineralizers (Na₂CO₃, BaCl₂, ZnO, SrCl₂, MgF₂, B₂O₃, les of small porosity, mineralizers (Na₂CO₃, BaCl₂, ZnO, SrCl₂, MgF₂, B₂O₃, and Al₂O₃) in amounts of 1-1.5% of weight were mixed with the synthesized since the strongest influence have Al₂O₃ and B₂O₃ admixtures (the latter licates. The strongest influence have Al₂O₃ and B₂O₃ admixtures (the latter on Ba₂SiO₄). They form a liquid phase at 1,350°-1,400°C by melting of the eutectic in this ternary system. According to these results Al₂O₃ and B₂O₃ and B₂O₃ and breaked samples demonstrate (see Table) that additions properties of the investigated samples demonstrate (see Table) that additions of Al₂O₃ and B₂O₃ in the amount of 1-1.5% by weight decrease porosity, increase mechanical strength (except Ba₂SiO₄ + 1% B₂O₃) and the modulus of elasticative and bending. Al₂O₃ admixtures practically do not change the heat-re-

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Physical and	Technical Pro	perties of Bariu	m and Strontiu	m Silicates		
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L 23802-65 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(v)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 WW/RM/WH

ACCESSION NR: AP4049458

8/0131/64/000/011/0520/0523

AUTHOR: Bogomolov, B.N., Sergeyeva, V.M.

TITLE: Unburnt refractories with a polymer binder

SOURCE: Ogneupory*, 11, 1964, 520-523

TOPIC TAGS: refractory material, polymer binder, aluminum phosphate, unburnt refractory, binder physical property

ABSTRACT: The purpose of this study was to produce specimens of unburnt refractories with a polymer binder that were not inferior to burnt refractories. Aluminum phosphate (AIPO₄) was chosen as the base material for obtaining a polymer binding. The investigation included the development of a method for making the liquid binder, selection of the base refractory material, and selection of the technology, manufacture, and testing of the specimens. The binder was obtained by the reaction AI(OH)₃ + H₃PO₄ → AIPO₄ + 3H₂O. The prepared binder was boiled, poured into vessels, and cooled with constant agitation. The prepared binder was a jelly-like, viscous material which did not solidifyfor a After cooling, the binder was a jelly-like, viscous material which did not solidified at long time and was transportable. Under special heating conditions the binder solidified at long time and was transportable. The refractoriness of the binder was above 1800C, the 275-285C into a porous mass. The refractoriness of the binder was above 1800C, the refractoriness-under-load (2kg/cm²) was above 1790C; no additional shrinkage was observed cord 1/2

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ACCESSION NR: AP4049458

at 1600C with 2-hr. holding; the thermal stability was more than 20 cycles of heating to 1300C and cooling in water; the apparent porosity was 45-50%; bulk weight was 2.18-2.28 g/cm³, compressive strength was 80-120 kg/cm²; bending strength, 35-50 kg/cm². The modulus of elasticity remained constant in the 20-1500C temperature range. The material was not electrically conductive up to 1500C, which was the limit of the experiment. Corundum, magnesite, chromite, dolomite, and forsterite were tested as the base refractory material. Corundum, sintered alumina, and various types of fireclay yielded the best results. As a result of the laboratory investigations, an effective aluminum phosphate binder and unburnt corundum and aluminophosphate refractories were obtained which were of high quality and stability. With special heat treatment in the 20-285C temperature range, the binder is polymerized, forming a stable skeleton, thus imparting high properties to the refractories. The authors considered that the sufficiently high properties and stability of the unburnt refractories obtained was due to the polymer skeleton, consisting of chains and rings of tetrahedra of AlPO₄ and Al₂O₃. Orig. art. has: 2 tables, 1 figure and 1 chemical equation.

ASSOCIATION: Sibniitsement

APPROVED FOR RELEASE: 08/23/2000

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NO REF SOV: 004

ENCL: 00

OTHER: 004

Card 2/2

CIA-RDP86-00513R001548120007-3"

SUB CODE: MT

SELLEYEVI, VIII

: AUTHORS:

Sergeyeva, V. M., Shtrum, Ye. L.

57-12-2/19

TITLE:

A Note of the Purification of Indium and the Preparation of the InSb Compound With a High Mobility of the Electrons (Ochistka indiya i polucheniye soyedineniya InSb s bol'shoy

podvizhnost'yu elektronov).

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 12, pp. 2698-

2701 (USSR)

ABSTRACT:

The purpose of this investigation was the production of an InSb compound with a great mobility of the electrons for the production of donors for the Hall-EMF (electromotoric force). Preliminary experiments showed, that a zonal purification of the InSb compound, which was obtained by a smelting of these metals, did not furnish the desired results. Therefore an additional purification of the initial substances, essentially of the indium, being the substance, which is most impure, was conducted. For this purpose the method of metal destillation in a vacuum was employed. In spite of the high boiling point (2440° K) of indium it was possible to employ this method for the purification of the indium. For a subsequent removal of silicium and of oxygen

Card 1/4

57-12-2/19 A Note on the Purification of Indium and the Preparation of the InSb Compound With a High Mobility of the Electrons.

temperature from 50.000 to 60.000 cm²/V.sec. A certain relation exists between the mobility of the electrons and their concentration in InSb. It is shown here, that with a decrease of concentration the mobility increases. At concentrations of less than $10^{17} \, \mathrm{cm}^{-3}$, however, the mobility depends very little on the electron concentration. For this reason, InSb with a carrier-concentration of the order of magnitude of 10¹⁶ cm⁻³ may be employed for many practical purposes. In cases, where it is necessary to increase the donor resistance, the InSb must undergo further purification and monocrystals must be produced. A part of the directors of the laboratory V. P. Zhuze and the Head Scientific Collaborator of the Scientific Research Institute Gipronikel' D. M. Shvart took part in this investigation. The latter concucted the spectral analysis of indium. There are 4 figures, 2 tables, and 13 references, 2 of which are Slavic.

ASSOCIATION: Institute for Semiconductors AN USSR, Leningrad (Institut

Card 3/4

poluprovodnikov AN SSSR Leningrad)

SERGEYEVA, V. M.

AUTHORS:

Zhuze, V. P., Sergeyeva, V. H., Shtrum, Ye. L.

57-2-3/32

TITLE:

New Semiconducting Compounds (Movyye poluprovodnikovyye soyedineniya).

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Mr 2, pp. 233-236 (USSR).

ABSTRACT:

In the investigation of binary semiconducting-compounds with the general stoichiometric formula ABX_2 the authors synthetically produced h new compounds of the following composition: $A^I_B^{VIII} X_2^{VI}$, where Λ is either Cu or

Ag, B - Fe and X either Se or Te. All four compounds, as was to be expected, are semiconductors. The analysis of the nature of the chemical line kage in these compounds indicates the possibility of a sp³-hybrid² zation (mixture of valence states) of the electron-states in the crystal. From the scheme given here is to be seen that the chemical linkage in compounds of this type probably takes place by means of electrons being in the state of sp³-hybridization. CuFeSe₂, CuFeTe₂, AgFeSe₂ and AgFeTe₂ were produced by direct melting of the components as well as from corresponding binary compounds (which were previously produced by a direct synthesis of the components). The radiographic analysis (performed by R. A. Zvinchuk in the Laboratory for Radiography in the Institute for Semiconductors AS USSR) proved that the samples were monophase. The cast samples of AgFeSe₂

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New Semiconducting Compounds.

57-2-3/32

and AgFeTe2 were more closely examined. The photographs were taken in the case of FeK _a, β -radiation. The roentgenograms were indicated under the as= sumption of a tetragonal lattice-symmetry. The great deviation of the c/a-values from the quantity (c/a=2) ideal for the chalcopyrite-structure as well as the occurrence of indices of the type h + k + l = 2n + l (for= bidden for the space-group $D_{2d}^{12} = I l_12d$) excludes the possibility to ascribe to these compounds the type of the chalcopyrite-structure (to which the analogue of these compounds - AgreS2 belongs). The volume relation of the elementary cells in AgFeSe2 and AgFeTe2 (elementary cells) agrees with the relation of their molecular weights and the relation of the third po-wer of the radii of Se²⁻ and Te²⁻. This can only indicate a similarity of the chemical linkage and an exact agreement of the structures with the conceptions from the theory of the densest packing. The melling tempera= tures T_{melt} , the microstrength H in kg/mm², the electric conductivity in ohm⁻¹ . cm⁻¹, the Hall constant R in cm³/C and the thermo-electromotive force T_{min} wy/or with record to T_{min} constant T_{min} const force α in α $V/^{\circ}C$ with regard to Po for all compounds were determined. For several compounds the activation-energy of the current-carriers in eV was determined according to the dependence of the Hall constant on tempe= rature. It is shown that the compounds (which were investigated here)

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New Semiconducting Compounds.

57-2-3/32

like those of the A^{III}B^V - type in the case of a deviation of their composition from the stoichiometry do not change the type of conductivity. The electric properties of the AgreTe2-compound were more closely investing ated here. In samples with a current-carrier-concentration of the order of magnitude lo¹⁸ cm⁻³ the mobility of the electrons is higher than 2000 cm²/V.sec. The dilatometric analysis of AgreTe2 at lho-150°C shows an iso thermal jump of the volume which indicates the occurrence of a first-ormore der phase transition. The modification of the volume in the phase transition. The modification of the volume in the phase transition. The modification of the volume in the phase transition is very high and amounts to 0,55°/o. The activation-energy of the current-carriers also undergoes great changes at the point of transition. Until the transition-temperature AE = 0,28 eV, afterwards = 0,58 eV. At the author's request P. V. Gul'tyayev measured the course of temperature of the thermal conductivity in the AgreSe2-samples with large crystals.

The coefficient of thermal conductivity in both compounds at room tempes

The coefficient of thermal conductivity in both compounds to return approaches 0,007 cal/cm.degree.sec.

There are 5 figures, 2 tables, and 9 references, 5 of which are Slavic.

ASSOCIATION:

Institute for Semiconductors AS USSR. Leningrad (Institut poluprovodnikov AN SSSR. Leningrad).

Card 3/4

New Semiconducting Compounds.

57-2-3/32

SUBMITTED:

July 27, 1957.

AVAILABLE:

Library of Congress.

1. Crystals-Analysis

Card 4/4

CIA-RDP86-00513R001548120007-3 "APPROVED FOR RELEASE: 08/23/2000

SOV/57-28-10-1/40 24(6)

Zhuze, V. P., Sergeyeva, V. M., Shtrum, Ye. L. AUTHORS:

Semiconductor Compounds With the General Formula ABX2 TITLE:

(Poluprovodníkovyye soyedineniya s obshchey formuloy \mathtt{ABX}_2)

Zhurnal tekhnicheskoy řiziki, Vol 28, Nr 10, pp 2093-2108 (USSR), 1958 PERIODICAL:

Ternary compounds with the general formula ABX, crystallize in ABSTRACT: a chalkopyrite structure. They were found for the first time

synthetized by H. Hahn (Knan) and coworkers in 1955 (Ref 1). In ABX compounds a formation of the sp hybrid states and the

tetrahedric distribution of atoms corresponding to this type of compound is according to the scheme describing the formation of chemical compounds only possible in such cases, where in the compound one of the elements of the third group of the periodic system, or iron, represents the trivalent element B. Antimony and bismuth are incapable of entering such a compound. Fundamental facts, a description of the method, and of the synthesis are presented. Investigations carried out in the X-ray labora-

tory IPAN by R. A. Zvinchuk showed that the samples of the

Card 1/4

THE STATE OF THE PROPERTY OF T

Semiconductor Compounds With the General Formula $ABX_2 = 50V/57 - 28 - 10 - 1/40$

group of $A^{\mathsf{I}}B^{\mathsf{III}}X_2^{\mathsf{VI}}$ compounds are all of monophase composition and a chalkopyrite structure. The compounds CuTlTe, AgTISe, and AgTlTe2 were for the first time produced synthetically. The X-ray analysis showed that $A^{\mathsf{I}}B^{\mathsf{VIII}}X_2^{\mathsf{VI}}$ compounds are also of monophase nature. Cast samples of AgreSe, and AgreTe, were examined more closely with the help of FeK radiation. The AIBVX2 compounds: CuSbSe2, CuBiSe2, AgSbSe2, AgSbTe2, AgBiSe2, and AgBiTe, also proved to be of a monophase nature. Without exception the compounds investigated were found to be semiconductors. In compounds with the elements of the V. group the chemical bond is very likely not realized by electrons in the hybrid state sp3, but by electrons, the state of which can be expressed by a pure p-function. An octahedron near-range order of the atoms is characteristic of such a bond, as the p-bonds lie in three directions orthogonal to each other. The crystal structure of the compounds of the V. group confirms the fact that the tetrahedron distribution of atoms distinctive of sp3

Card 2/4

Semiconductor Compounds with the General Formula ABX $_2$ SOV/ $_2$ -28-10-1/40

bonds is not found in these compounds. With this group only the octahedron distribution is realized. The compounds produced synthetically are subject to the general rules which make it possible to separate substances with intrinsic semiconduction from such with a metallic conductivity. The decision between these two alternatives is based upon the conception of the possibility of the formation of covalent bonds. The ${\tt A}^{\rm I}{\tt B}^{\rm III}{\tt X}_2^{\rm VI}$ pounds satisfy the octet rule by Kossel (Kossel') and the rule by Mooser (Mozer) and Pearson (Pirson) (Ref 19). Finally the participation of the d-electrons of the iron contained in the $^{I}_{B}^{VIII}_{X_{2}^{VI}}$ compounds in the formation of the chemical bond and in the semiconductivity is investigated. The absence of metallic conductivity gives rise to the assumption that the d-electrons of the atoms of the transition metal are existing in discreet states in these compounds and that they form a completely occupied d-zone. It may be assumed that the great distances between the atoms of the transition metal in the crystal are hindering the formation of an incompletely occupied zone. This problem will be the subject of another paper. A. F. Ioffe,

Card 3/4

Semiconductor Compounds With the General Formula $ABX_2 = SOY/57-28-0-1/40$

Member. Academy of Sciences, USSR, showed constant interest in the work and discussed it with the authors. There are 12 figures, 7 tables, and 20 references, 10 of which are Soviet.

SUBMITTED: March 10, 1948

Card 4/4

		(5,	
ZHUTE, V. P., ZASTAV ZHINGOV, I. A. and S	GHI, A. I., PERKENYICH, V. A., SERCENYA, V. M., WELVER, A. I.		·
Electrical and Defect Structur	Thertal Properties on In To - Semiconductor with		
report presented at 29 Aug - 2 Sep 1960	the Hitl. Conf on Semiconductor Physics, Pregue,	* - - - - - - - - - - - - -	
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24,7600 24,7700 S/181/60/002/02/25/033 B006/B067

AUTHORS:

Averkin, A. A., Sergeyeva, V. M., Shelykh, A. I.

TITLE:

Influence of Uniform Pressure You the Electrical Conductivity

and Thermoelectromotive Force of IngTe

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 2, pp. 347-349

TEXT: Among the sphalerite-like crystallizing semiconducting compounds there are some of the composition A_2 B_3 which have defects at the sites of the metal atoms. $In_2 Te_3$, which has been investigated by the authors, also belongs to them. The investigations of the authors yielded the surprising result that in the isoelectronic series of semiconductors which crystallize sphalerite-like and have almost equal lattice parameters, the properties of $In_2 Te_3$ deviate essentially from those of the right and left neighbors, and that they are governed by completely different rules. Hence, e.g., the carrier mobility in $In_2 Te_3$ is anomalously small

Card 1/3

X

31780

Influence of Uniform Pressure on the Electrical S/181/60/002/02/25/033 Conductivity and Thermoelectromotive Force of B006/B067 In₂Te₃

 $(10-45~{\rm cm}^2/{\rm v.sec}$ for electrons) as well as the thermal conductivity of the lattice. According to Ye. D. Devyatkova and I. A. Smirnov, it amounts to 0.002 cal/cm.sec.deg at $20^{\rm o}$ C. The authors investigated the influence exercised by the strong defectiveness of the lattice on the change of the electrical properties with uniform pressure $(7000~{\rm kg/cm}^2)$ in the temperature range $20-60^{\rm o}$ C. The ${\rm In}_2{\rm Te}_3$ samples had a size of $7~{\rm s} \sim 2~{\rm mm}^3$, the electric contacts were made of pure tin. The temperature in the pressure chamber was kept constant by means of an ultrathermostat (accuracy: $0.2^{\rm o}$ C). Paraffin was chosen as pressure transmitting medium. As may be seen from Fig. 1, the electrical conductivity of an intrinsic ${\rm In}_2{\rm Te}_3$ sample decreases with increasing pressure, passes through a minimum ${\rm P}_{\rm omin}$, and increases again with further increasing pressure. ${\rm P}_{\rm omin}$ somewhat differs in the various samples, and with increasing temperature it is shifted toward higher pressures. The $\sigma({\rm P})$ curve shows a hysteresis which is particularly marked in samples with impurity conductivity

Card 2/3

IX

Influence of Uniform Pressure on the Electrical S/181/60/002/02/25/033 Conductivity and Thermoelectromotive Force of B006/B067 In_2Te_3

(Fig. 2). A measurement of the coefficient of thermoelectromotive force a showed that in the pressure range $1 \doteq P_{\text{omin}}$ the thermoelectromotive force is negative (n-type conductivity) and decreases with increasing P; at P_{omin} it is equal to zero, and with further increasing pressure it becomes positive (p-type conductivity). The p-type conductivity of samples with impurity conductivity is roughly trebled with increasing pressure in the range 1-7000 kg/cm², whereas the n-type conductivity hardly changes (Fig. 2). Emf measurements showed that in n-type and p-type samples |\alpha| is independent of P within the limits of accuracy. In conclusion, the authors try to explain these experimental results theoretically. They thank V. P. Zhuze and A. R. Regel' for supervising the work. There are 2 figures and 2 non-Soviet references.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors of the AS USSR, Leningrad)

SUBMITTED: May 21, 1959

Card 3/3

X

ZHUZE, V.P.; SERGEYEVA, V.M.; SHELYKH, A.I.

Electric properties of an In, Te, semiconductor with defect structure.
Fiz. tver. tela 2 no.11:2858-2871 N '60. (MIRA 13:12)

1. Institut poluprovodnikov AN SSSE, Leningrad.

(Indium telluride—Electric properties)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548120007-3"

ZASLAVSKIY, A.I.; SERGEYEYA, V.M.

Polymorphism of In₂Te₃. Fiz. tver. tela 2 no.11;2872-2880 H '60.

(MIRA 13:12)

1. Institut poluprovodnikov AN SSSR. Leningrad.

(Indium telluride)

(Polymorphism)

PETRUSEV:	Optical and eleno.11:2881-2884	ctrical propert	ies of In ₂ Te ₃ N SSSR, Lening lluride)	. Fiz. tver. (MI	;ela 2 gr 13:12)	
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ZASLAVSKIY, A.I.; SERGEYEVA, V.M.; SMIRNOV, I.A.

Heat conductivity of daml \$\beta\$-modifications of \$\Int_2^{\text{Te}_3}\$. Fiz. tver.

tela 2 no.11:2885-2893 N '60.

1. Institut poluprovodnikov AN SSSR, Leningrad.

(Indium telluride--Thermal properties)

PETRUSEVICH, V.A.; SERGEYEVA, V.M.; SMIRNOV, I.A.

Relationship between the thermal and optical properties of In Te₂.

Fiz. tver. tela 2 no.ll:2894-2898 N '60. (MIRA 13:12)

1. Institut poluprovodnikov AN SSSR, Leningrad. (Indium telluride)

Semiconducting properties of nicklous oxide. V. P. Zhuze, A. I. Shelykh.

Mobility of current carriers in ferro-and antiferro-magnetic material Ya. M. Ksendzov.

Electrical properties of chalcogenides of rare earth elements. A. V. Golubkov, Ye. V. Goncharova, V. P. Zhuze, V. M. Sergeyeva.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

ACCESSION NR: APHO11764

s/0181/64/006/001/0257/0267

AUTHORS: Zhuze, V. P.; Golubkov, A. V.; Goncharova, Ye. V.; Sergeyeva, V. M.

TITLE: Electrical properties of rare earth compounds (cerium subgroup) with members of the sulfur group

SOURCE: Fizika tverdogo tela, v. 6, no. 1, 1964, 257-267

TOPIC TAGS: electrical properties, rare earth, cerium subgroup, sulfur group, resistivity, thermal conductivity, thermoelectromotive force, LaS, CeS, Prs, NdS, LaSe, CeSe, PrSe, NdSe, LaTe, CeTe, PrTe, NdTe

ABSTRACT: The authors have synthesized the compounds LaS, CeS, PrS, NdS, LaSe, CeSe, PrSe, NdSe, LaTe, CeTe, PrTe, and NdTe. They determined the dependence of resistivity and thermoelectromotive force on temperature in the interval 300-1300K, and they measured the thermal conductivity at room temperature. resistivity increases moderately but steadily with increase in temperature for each compound. The thermoelectromotive force declines with rise in temperature, as shown in Fig. 1 on the Enclosures. Many of the properties of the compounds are

Card 1/

ACCESSION NR: AP4011764

-summarized in Table 1 on the Enclosures. The results of measurements indicate that the investigated compounds have the nature of metallic conductors. "We take this opportunity to express our sincere thanks to our co-workers at the x-ray laboratory of IPAN, I. A. Zaslavskiy and T. B. Zhukova for x-ray analyses of the samples and also to the co-workers at our laboratory, M. A. Demina dnd T. I. Komarova for aid in preparing the samples." Orig. art. has: 6 figures, 4 tables, and 6 formulas.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors AN SSSR)

SUBMITTED: 30Jul63

DATE ACQ: 11Feb64

ENCL: 02

SUB CODE: PH

NO REF SOV: 003

OTHER: 025

Card 2/4

CIA-RDP86-00513R001548120007-3" APPROVED FOR RELEASE: 08/23/2000

ZHUZE, V.P.; GOLUBKOV, A.V.; TONCHAROVA, Ye.V.; KOMAROVA, T.I.; SERGEYEVA, V.M.

Electric properties of samarium sulfide. Fiz. tver. tela 6 no.1: 268-271 Ja '64. (MIRA 17:2)

1. Institut peluprovodnikov AN SSSR, Leningrad.

ACCESSION NR: APLO13500

5/0181/64/006/002/0430/0435

AUTHORS: Devyatkova, Ye. D.; Zhuze, V. P.; Golubkov, A. V.; Sergeyeva, V. M.; Smirnov, I. A.

TITLE: The thermal conductivity of Sm, P, and their simple chalcogen compounds

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 430-435

TOPIC TAGS: thermal conductivity, samarium, praseodymium, chalcogen, crystal lattice conductivity, rare earth

ABSTRACT: This paper stems from a lack of thermal-conductivity information on rare-earth compounds and their compounds that have been recently studied in considerable detail for other properties. The compounds studied (PrS, PrSe, PrTe, and SmS) were synthesized from the constituent elements by the method described in Rare Earth Research (p. 135, 223, Ed. by E. V. Kleber, N. Y., 1961), and the thermal conductivity was measured on the "A" setup of Ye. D. Devyatkova, A. V. Petrov, I. A. Smirnov, and B. Ya. Moyzhes (FTT, 2, 738, 1960). Measurements on Sm, Pr, and the indicated compounds were made in the temperature interval 80-460K.

Card 1/2

ACCESSION NR: AP4013500

The authors found that a considerable part of the total thermal conductivity (up to 30-50%) in these substances is crystal-lattice conductivity. The temperature dependence of this lattice conductivity may be explained by two scattering processes: phonons by phonons and phonons by electrons. Orig. art. has: 6 figures, 2 tables, and 5 formulas.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors AN SSSR)

SUBMITTED: 30Ju163

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: IC, SS

NO REF SOV: OOL

OTHER: 009

Card 2/2

BOGOMOLOV, B.N.; SERGEYEVA, V.M.

Unfired refractories with a polymer binding. Ogneupory 29 no.11:520-523 *64. (MIRA 18:1)

1. Sibniitsement.

AUTHOR: Golubkov, A. V.; Zhukova, T. B.; Sergeyeva, V. H.

36

ORG: Institute of Semiconductors, AN SSSR (Institut poluprovodníkov É AN SSSR)

TITLE: Synthesis of the rare earth element chalcogenides 15.4

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 1, 1966, 77-81

TOPIC TAGS: rare earth metal, selenide, sulfide, telluride, inorganic synthesis, rare earth chalcogenide, single crystal growth, semiconducting material

ABSTRACT: An improved method of direct synthesis has been developed for higher purity poly- and single crystalline rare earth metal monochalcogenides, MX, and sesquichalcogenides, M $_2$ X $_3$, where M = La, Pr, Nd, Ce and X = S, Se, Te. The nonstoichiometric and low purity compounds were obtained by the earlier used methods, mainly because of oxidation or contamination with the impurities from the container. A two-step process developed by the authors excluded these two causes of contamination. The first step of the process consisted in reacting the rare earth metal shavings with chalcogen vapors at below 600C in

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L 17613-66

ACC NR: AP6003366

evacuated and hydrogen filled ampuls of thermally stable glass. second step, the reaction product was either annealed by resistance heating at 1600-1800C in high vacuum to prepare macrocrystalline MX, or annealed and melted by induction heating at 1500-2000C also in high vacuum to grow by sublimation well developed MX single crystals, e.g., Water cooling of the container (quartz ampul) was required in LaS. this latter variant to prevent oxidation of MX. Preparation of polycrystalline M2X3 ingots also required high temperature annealing and melting in an induction furnace, but in argon atmosphere and without cooling of the ampul. Lattice constants \underline{a} of the polycrystalline MX were in good agreement with literature data. In the case of LaS, PrSe, and PrTe single crystals the a values were determined with greater accuracy and were in good agreement with the a values of polycrystalline compounds. Electric conductivity data at 300K for MX were much higher than literature data because of the higher purity of the products. Electric resistivity of M_2X_3 in the 10^4-10^5 ohm cm range indicated a nearly stoichiometric composition. Orig. art. has: 2 figures and [JK] l table.

SUB CODE: 07/ SUBM DATE: 25Jun65/ ORIG REF: 004/ OTH REF: 013

Card 2/2

L 24373-66 EWT(m)/ETC(f)/EWG(m)/EWP(t) RDW/JD/JG

ACC NR: AP6010438

SOURCE CODE: UR/0386/66/003/005/0217/0219 72

60

AUTHOR: Zhuze, V. P.; Shalyt, S. S.; Noskin, V. A.; Sergeyeva, V. M.

ORG: Institute of Semiconductors, Academy of Sciences, SSSR (Institut poluprovodnikov Akademii nauk SSSR)

TITLE: Superconductivity of LagTe4

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 217-219

TOPIC TAGS: superconductivity, lanthanum compound, telluride, stoichiometry, critical point, critical magnetic field

ABSTRACT: The authors show that La₃Te₄ is a superconductor of the second kind, with properties similar to the La₃Se₄ and La₃Se₄, whose superconductivity was reported recently. They also show that the superconducting transition temperature of this substance depends on the technology of its preparation and is possibly connected with some deviation of the composition from the stoichiometry. The <u>lanthanum telluride</u> was synthesized from the components by vacuum sublimation and <u>zone melting</u>, using a procedure described in detail elsewhere (A. V. Golubkov et al., Neorganicheskiye materialy [Inorganic Materials] v. 2, No. 1, 1966). Two samples were tested, one pressed from previously fused material and the other prepared by melting. The critical temperatures of the two samples were 2.45 and 3.75K, respectively. The corresponding critical fields for the destruction of superconductivity were 8 and 12.5 koe, respectively. Magnetic measurements have shown that at 1.4K the Meissner effect

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ACC NR: AP6								مک ،
anifested i he authors rig. art. h	thank_	in fields u A. I. Zasla figures.	p to 20 and vskiy and T.	60 oe in se B. Zhukove	mples 1 for the	and 2, res x-ray pha	pectively. se analysis.	
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RD#/JD/JG EWT(m)/EWE(w)/I/EWP(t)/ETI - IJe(c) SOURCE CODE: UR/0181/66/008/006/1761/1771 L' 41591-66 AP6018537 ACC NR: Golubkov, A. V; Devyatkova, Ye. D.; Zhuze, V. P.; Sergeyeva, V. M.; Smirnov, AUTHOR: ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN TITIE: Thermal conductivity of lanthanum and its monochalcogenites SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1761-1771 TOPIC TAGS: lanthanum, lanthanum compound, thermal conduction, rare earth metal, crystal lattice, thermal emf, temperature dependence, phonon scattering, electron ABSTRACT: This is a continuation of earlier research by the authors (FTT v. 6, 430, 1964) on the thermal conductivity of rare-earth metals and their compounds, and is devoted to a separation of the electronic and lattice components of the thermal conductivity of Ia, IaTe, IaSe, and IaS. The lanthamum monochalcogenites were synthesized from the constitutent elements by a method described in detail in the Hiterature (Rare Earth Research, 223. Ed. by E. V. Kleber, NY, 1961; A. V. Golubkov et al., Neorg. mat. v. 2, 77, 1966) and were pressed into briquettes at high pressure followed by annealing. The measurement apparatus was described by the authors earlier (FTT v. 2, 738, 1960). The theoretical expressions for the two thermalconductivity components are derived. From an analysis of the experimentally measured 1/2 Çard

L 41591-66 ACC NR: AP6018537 thermal conductivity, resistivity, and thermal emf and their temperature dependence it is deduced that an appreciable fraction of the total thermal conductivity is due to the crystal lattice. The temperature dependence of the lattice component can be attributed to the presence of two scattering mechanisms, phonons by phonons and phonons by conduction electrons. The low carrier mobility observed in the experiments is due essentially to strong electron-phonon interaction. The presently available data on LaTe, LaSe, and LaS are summarized in a table. The authors thank A. I. Zaslavskiy and T. B. Zhukova for the x-ray analysis, V. M. Muzhdaba and Ye. V. Goncharova for supplying data on the residual resistance and on the concentration, and Doctor Suchat for information on the degree of ionicity of the materials measured in this study. Orig. art. has: 7 figures, 7 formulas, and 5 tables. SUB CODE: 20/ SUBM DATE: 03Nov65/ ORIG REF: 010/ OTH REF: 022 Card 2/2/11/17

SERGEYEVA, V.N., dotsent

Surgical treatment of genitourinary fistulas in women. Zdrav. Turk. 5 no.2:21-25 Mr-Ap '61. (MIRA 14:5)

1. Iz kafedry fakul tetskoy khirurgii (zav. - dotsent Ch.B.Bayriyev)
Turkmenskogo gosudarstvennogo meditsinskogo instituta imeni I.V.Stalina.
(FISTULA)

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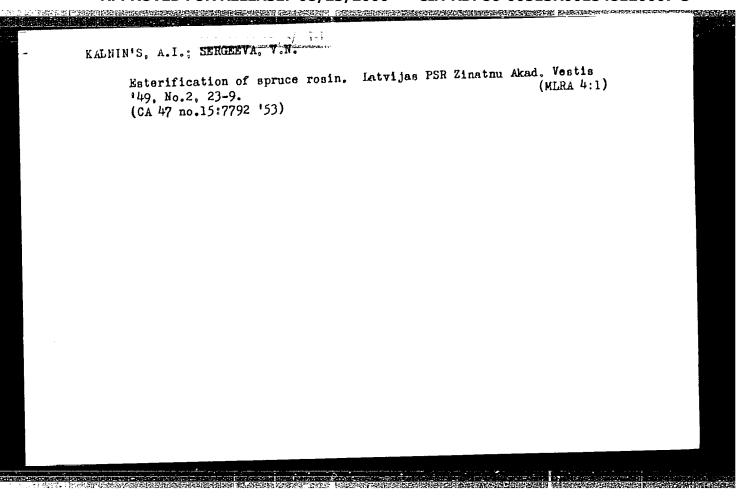
DO: U-13:3, ly August 53, (Late is 'Zharnai 'nyak Stater', No. 22, 1949).

SANGER RESIDENCE SERVICE SERVI

SERGEEVA, V. N.

27666. SERGEEVA, V. N. i ODINTSOV, P. N.--k voprosu o lignine zhivykh chastey racteniya. trudy in-ta lesokhoz. Problem (akad. nauk latv. SBR), vyp. 1, 1949, s. 181-86. rezyume na latv. yaz. - Bibliogr: 6 nazv. SINSKAYA, E. W. k peresmotru osnov filogeneticheskoy sistematike. - sm. 27808.

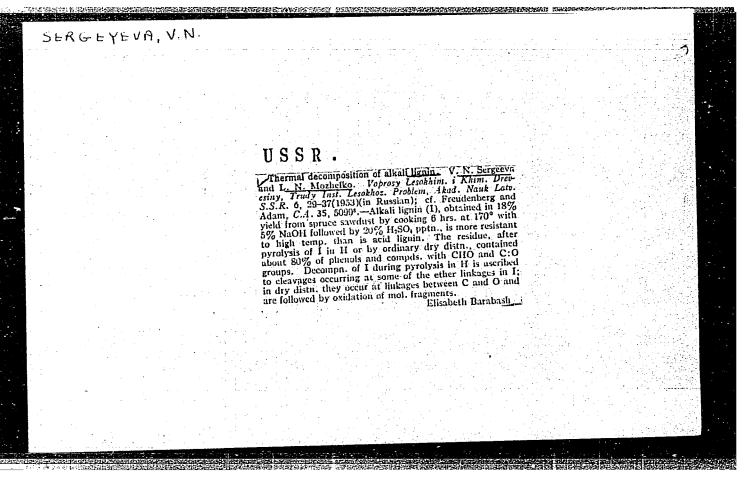
SO: Knizhnaya Letopis, Vol. 1, 1955.

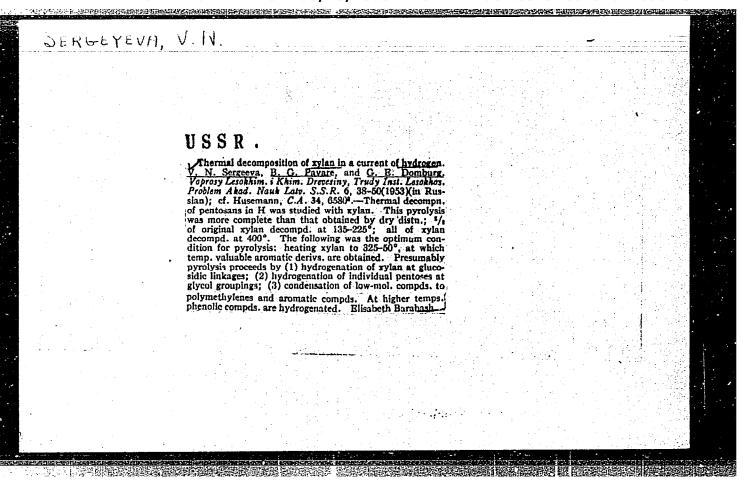


SERGEYEVA, V. H.

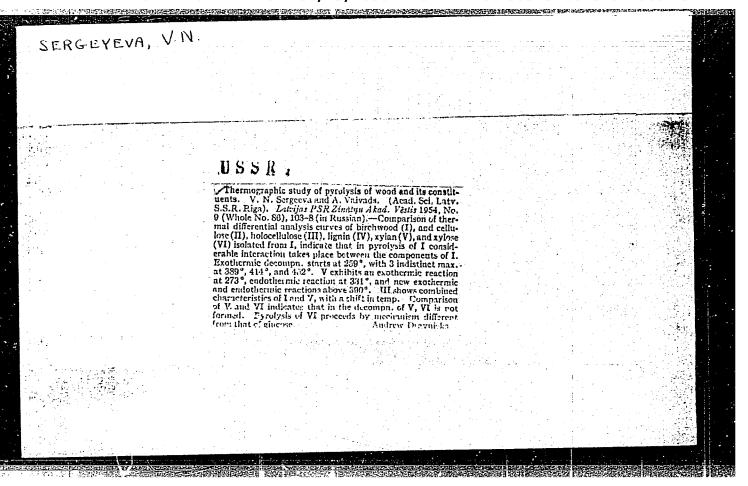
Kalnin'sh, A., Sergeyeva, V. H. and Vende, P. "On the problem of making rational use of approce resin," Izvestiya Akad. nauk Latv. SSR, 1949, N. 3, p. 85-89, (In Latvian; resume in Russian).

So: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, N. 17, 1949).





SERGEYEVA	٧.		
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	distillation p. S. Biseniece 8, 75-9(Rus mixing of the both free an 46%, the lacids, 11-11	ristics of pine tar obtained by mixing of the dry gases with a fan. A. Kalnins, V. Sergejeva, and e. Latvijas PSR Zinālņu Akad. Vēstis 1953, No. ssian summary, 80).—In dry distn. of pine wood, he distn. gases with a fan increased the yield of heavy tar 41% I. The tars contained 7-11% heavy tar 41% I. The tars contained 7-11% heavy tar 41% of the contained 7-11% heavy tar 41% I. The tars contained 7-11% heavy tars 41% II. The tars 50 heavy tars 41% II. T	
	retenc. M	iol, wt, of the neutral part was 230—10. A. D.	

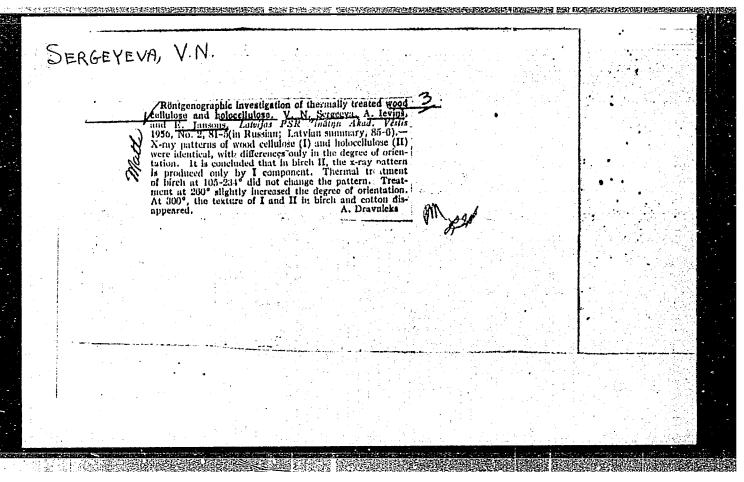


KAININS, A.I.; SERGEYEVA, V.N., kandidat khimicheskikh nauk.

"Technology of pyrogenic processing of wood." V.N.Koslov,
A.A.Mimvitskii. Reviewed by A.I.Kalnins, V.N.Sergeyeva.
Gidroliz. i lesokhim. prom. 8 no.6:29-30 '55. (MLRA 9:1)

1.Deystvitel'nyy chlen Akademii nauk Latviyskoy SSR (for Kalnins).

(Wood--Chemistry) (Kozlov, V.N.) (Nimviyakii, A.A.)



SERGEYEVA, V.N.; MILYUTINA, S.V.

Changes in the morphology and properties of the cell walls of holocellulose and cellulose fibers of spruce brought about by thermal processing. Gidroliz i lesokhim. prom. 11 no.3:3-5 158.

(MIRA 11:5)

1. Institut lesokhozyaystvennykh problem AN Latviyskoy SSR.
(Spruce) (Holocellulose) (Cellulose)

SEMCREVA, V. ; HILIUTEIA, S.

Effect of heat treatment on the nature of holocellulose fibers of spruce wood. p. 69.

ETCLOCICHESKAIA MAUKA; STLSKOMU L LESMOMU EHOZIAISTVU. (Latvijas PSR Zinatnu akademija. Biologijas Zinatnu nodala) Riga, Latvia, No. 16, 1958. In Russian.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalnins, A.];
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.; Prinimali
uchastiye: MERLIS, N.M.; DURININA, L.I.; BISENIYETSE, S.K. [Biseniece, S.];
GUNDARS, A.Yu.; FEDORCHENKO, R.I.; MINAKOVA, V.I.

New method for the complete chemical processing of plant tissues. Gidroliz. i lesokhim. prom. 14 no.7:4-6 '61. (11114 14:11)

1. Institut *Yysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn, Merlis, Durinina). 2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latviyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov, Bisenietse, Gundars). 3. Krasnodarskiy gidroliznyy zavod (for Maksimenko, Fedorchenko, Minakova). 4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).

(Plant cells and tissues)
(Botanical chemistry)

SERGEYEVA, Varvara Nikolayevna; DOMBURG, Galina Eduardovna;
KALNIN'SH, A.I.[Kalnins, A.I.], akademik, red.; DYMARSKAYA,0.,
red.; LEMBERGA, A., tekhn, red.

[Formation of furfurole and methods for its production]Obrazovanie furfurola i metody ego polucheniia. Pod red. A.I.Kalnin'sha. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1962. 83 p. (MIRA 15:9)

1. Akademiya nauk Latviyskoy SSR (for Kalnin'sh). (Furaldehyde)

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalnins, A.]; ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.

Outlook for a new method of complete processing of plant materials. Gidroliz.i lesokhim.prom. 15 no.3:12-15 62. (MIRA 15:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn). 2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latviyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov). 3. Krasnodarskiy gidroliznyy zavod (for Maksimenko). 4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk). (Wood—Chemistry) (Hydrolysis) (Plant cells and tissues)

SERCEYEVA, Varvara Nikolayevna; MOZEIKO, L.; JAHNZEMS, V.;
FELDHUME, A., red.; ECKMANIS, R., tekhn. red.

[Lignin and its use] Lignins un ta izmantosana. Riga,
Latvijas PSR ZA izdevnieciba, 1963. 63 p. (MIRA 16:5)

(Lignin)

GROMOV, V.S., kand. khim. nauk, otv. red.; DOLBURG, G.E., kand. khim. nauk, red.; IYEVIN'SH, I.K.[Ievins, I.], kand. tekhn. nauk, red.; KAL'EINA, V.K.[Kalnina, V.], kand. tekhn. nauk, red.; RUPAYS, Ye.A.[Rupais, E.], kand. khim. nauk, red.; SERGEYEVA, V.N., doktor khim. nauk, red.; EMMUSH, N.A.[Ermus, N.], st. nauchn. sotr., red.; YUKNA, A.D.[Jukna, A.], kand. tekhn. nauk, red.; LEVI,S., rod.; SUKLEMNIK, Ch., red.

[Chemical processing and preserving of wood] Khimicheskaia pererabotka i zashchita drevesiny. Riga, Izd-vo AN Latv.SSR, 1964. 238 p. (MIRA 18:1)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija. 2. Institut khimii drevesiny AN Latviyskoy SSR (for Gromov, Sergeyeva, Ermush).

SKLYAR, V.A.; AVRAMENKO, K.P.; PAVLOV, D.F.; BOBKOV, N.V.; BERESTOVAYA, R.V.; SKRYPNIK, Ye.P.; SEMONENKO, Ye.T.; SERGEYEVA, V.P.; KOLYAKO, D.A., red.; SOLDATOVA, N.P., otvetstv.za vypusk; GRISHNYAYEV, B.G., tekhn.red.

[Economy of Krasnodar Territory; a statistical manual] Narodnoe khoziaistvo Krasnodarskogo kraia; statisticheskii sbornik.

Krasnodar, Gosstatizdat, 1958. 233 p. (MIRA 12:2)

1. Krasnodarskiy krav. Statisticheskoye upravleniye. 2. Nachal'nik Krasnodarskogo krayevogo statisticheskogo upravleniya (for Kolyako). (Krasnodar Territory--Statistics)

VOL'NOV, I.I.; CHAMOVA, V.N.; SERGEYEVA, V.P.; LATYSHEVA, Ye.I.

Research in the synthesis of superoxides of alkaline earth metals. Zhur.neorg.khim. i no.9:1937-1942 S '56. (MIRA 10:1)

 Institut ohshchey i neorganicheskoy khimii imeni N.S.Kurnakova Akademii nauk SSSR, Laboratoriya perekisnykh soyedineniy. (Calcium superoxide)

CHAMOVA, V.N.; SERGEYEVA, V.P.

The solubility isotherm of the system Ca(OH)₂ -- H₂O₂ -- H₂O
at 50°. Zhur. neorg. khim. 2 no.8:1938-1939 Ag '57. (MIRA 11:3)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakoval AN SSSR, Iaboratoriya perekisnykh soyedineniy.

(Calcium hydroxide) (Hydrogen peroxide) (Solubility)

5(2) 50V/78-4-2-2/40

AUTHORS: Vol'nov, I. I., Chamova, V. N., Sergeyeva, V. P.

TITLE: New Data on the Formation of Superperoxides of Calcium and

Strontium (Novyye dannyye po obrazovaniyu nadperekisey

kal'tsiya i strontsiya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2,

pp 253-256 (USSR)

ABSTRACT: The optimum conditions for the production of $Ca(0_2)_2$ and

 $Sr(0_2)_2$ from $Ca0_2 \cdot 2H_2 O_2$ and $Sr0_2 \cdot 2H_2 O_2$ were determined. The

percentage of the $Ca(0_2)_2$ and $Sr(0_2)_2$ content in the de-

composition products of CaO2.2H2O2 and SrO2.2H2O2 depends on

the temperature, time and surface area. A temperature of 50° C, a duration of 100 minutes, a surface area of 1800 cm², and a pressure of 10 mm Hg are recommended for the production of $\text{Ca}(0_2)_2$ and $\text{Sr}(0_2)_2$. One gram initial sample of $\text{MeO}_2 \cdot 2\text{H}_2\text{O}_2$

is distributed on the surface of 1800 cm². On the decomposition

Card 1/3 of CaO2.2H2O2 the analyses of the solid phases formed show

New Data on the Formation of Superperoxides of Calcium and Strontium

that with an increase of the percentage of $\operatorname{Ca(0_2)_2}$ content the $\operatorname{Ca(OH)_2}$ content rises and the $\operatorname{CaO_2}$ content drops. This dependence is caused by the occurrence of a secondary reaction between $\operatorname{Ca(0_2)_2}$ and steam, or by the participation of $\operatorname{CaO_2.2H_2O_2}$ into $\operatorname{Ca(0_2)_2}$ mixed with solid siccatives (silicagel, $\operatorname{P_2O_5}$, anhydrous $\operatorname{CaO_2}$, alkali hydroxides) or liquid rectifiers (absolute ethyl alcohol, $\operatorname{CCl_4}$, dioxane, diethyl phthalate) was investigated. The $\operatorname{Ca(0_2)_2}$ content of the solid products is 40 weight %. On drying in a vacuum $\operatorname{KO_2}$ and $\operatorname{NaO_2}$ containing products are formed from a mixture of $\operatorname{CaO_2.2H_2O_2}$ and KOH or NaOH. Samples with 40 weight % $\operatorname{Ca(0_2)_2}$ can be stored in hermetically closed vessels. With an extension of the surface area, on which the preparations are distributed, the $\operatorname{Ca(0_2)_2}$ and $\operatorname{Sr(0_2)_2}$ content of the reaction products in-

Card 2/3

SOV/78-4-2-2/40

New Data on the Formation of Superperoxides of Calcium and Strontium

creases. There are 3 figures, 3 tables, and 4 Soviet

references.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kur-

nakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of

Sciences USSR)

SUBMITTED: November 3, 1957

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548120007-3"

MUZILOV, Yu.T., kand. ekon. nauk; Prinimali uchastiye: YERMAKOVA, L.A.; RESHETNIKOV, V.A.; RESHETNIKOVA, L.V.; RUBLEVA, K.I.; SAMOYLOV, N.P.; SERGEYEVA, V.S., red.; TIKHONOVA, Ye.M., red.

[Manual for establishing work norms and wages in livestock farming] Spravochnik po normirovaniiu i oplate truda v zhivotnovodstve. Moskva, Kolos, 1964. 326 p.

(MIRA 18:8)

EATRICE, Aleksey Trefinevien; RoksATOV, Illya Emitriyevich; SELGETEVA, V.S., red.

[Business accounting practice within individual production units of a collective form] Fraktika vnutrikolkhoznogo

khozrascheta. Moskva, Kolos, 1965. 189 p. (MINA 18:9)

MORSIN, Sergey Sergeyevich; SERGEYEVA, V.S., red.; LAPIDUS, M.A., red.; TRUKHINA, O.N., tekhn. red.

[Organization of work on collective farms]Organizatsiia truda v kolkhozakh. Moskva, Sel'khozizdat, 1962. 85 p.
(MIRA 16:2)

(Collective farms—Management)

BUZILOV, Yuriy Tarasovich, dots.; SERGEYEVA, V.S., red.; BALLOD,
A.I. tekhn. red.; SOKOLOVA, N.N., tekhn.red.; BELOVA, N.N.,
tekhn.red.

[Establishing standards of production in agriculture] Tekhnicheskoe normirovanie v sel'skom khoziaistve. Moskva, Sel'khozizdat, 19621 287 p.

(Agriculture)

(Agriculture)

作。 一种大学,是是一种大学的,我们们是一种的一种,我们们们们的一种,我们们们们们们的一种,我们们们们们们们们们们们们,这个人们们们们们的一种的人们们们们们们们们们

KALPIN, G.Z.; RUBLEVA, K.I.; SAMOYLLV, N.P.; REBROVA, G.I.; SAGARDA, Ye.A.; SERGEYEVA, V.S., red.; TIKHONOVA, Ye.M., red.; MAKHOVA, N.N., tekhn. red.; OKOLELOVA, Z.P., tekhn. red.

[Manual on wages on state farms and other state agricultural enterprises] Spravochnik po oplate truda v sovkhozakh i drugikh gosudarstvennykh sel'skokhozyaystvennykh predpriiatiiakh. Izd.2., perer. i dop. Moskva, Sel'khozizdat, 1963. 638 p. (MIRA 16:12) (Agricultural wages-Handbooks, manuals, etc.)

LARIONOV, Georgiy Ivanovich; SERGEYEVA, V.S., red.; SOKOLOVA, N.N., tekhn. red.; OKOLELOVA, Ž.P., tekhn. red.

[Establishing work norms on collective and state farms]
Normirovanie truda v kolkhozakh i sovkhozakh. Moskve,
Sel'khozizdat, 1963. 230 p. (MIRA 17:2)

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	were something the regime of ground sater of the Kamassif according to the regime of Kakhovka Reselections.10:39-99 164.	emenko irrigation rvoir. Trudy (MIRA 17:10)	
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National Programme and Company of the Company of th

TSYPKINA, M.N.; MAKHNOVETSKAYA, G.I.; SERGEYEVA, V.V.

"Acitve" and "inactive" sulfur of cation exchangers. Zhur.prikl.khim. 35 no.11:2440-2444 N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel skiy institut tsellyuloznoy i bumazhnoy promyshlennostf.
(Sulfur) (Ion exchange resins)

ACC NR: AP5025040 SOURCE CODE: UR/0286/65/000/016/0085/0085 AUTHORS: Eliashberg, M. G.; Tsypkina, M. N.; Makhnovetskaya, G. I.; Boyarskaya, R. K.; Sergeyava, V. V. ORG: none TITLE: Method for obtaining cation exchange resin from waste solutions of the sulfite cellulose industry. Class 39, No. 173952 SOURCE: Byulleten izobreteniy i tovarnykh znakov, no. 16, 1965, 85 TOPIC TAGS: cation exchange, resin, sulfite waste liquor, cellulose ABSTRACT: This Author Certificate presents a method for obtaining cation exchange resin from waste liquor of the sulfite cellulose industry (alcoholic sulfite, malt, and yeast brew). To reduce the cost of mammfacture, the waste malt solutions are freed from the base by cationation and concentrated by evaporation at a temperature of 90-100C until the dry materials content reaches 50%. The mixture is heated to dryness and condensed at the same temperature until the resin gains the desired degree of swelling. SUBCODE: 07, N/ SUBM DATE: OlMar61 UDC: 541.183.123.2:678.557		
AUTHORS: Eliashberg, M. G.; Tsypkina, M. N.; Makhnovetskaya, G. I.; Boyarskaya, R. K.; Sergsyeva, V. V. ORG: none TITLE: Method for obtaining cation exchange resin from waste solutions of the sulfite cellulose industry. Class 39, No. 173952 / SOURCE: Byulleten izobreteniy i tovarnykh znakov, no. 16, 1965, 85 TOPIC TAGS: cation exchange, resin, sulfite waste liquor, cellulose ABSTRACT: This Author Certificate presents a method for obtaining cation exchange resin from waste liquor of the sulfite cellulose industry (alcoholic sulfite, malt, and yeast brew). To reduce the cost of mammfacture, the waste malt solutions are freed from the base by cationation and concentrated by evaporation at a temperature of 90-100C until the dry materials content reaches 50%. The mixture is heated to dryness and condensed at the same temperature until the resin gains the desired degree of swelling. SUBM DATE: OlMar61	1 7885-66 EWT(m)/ETC/EWG(m) DS/RM	
ORG: none TITLE: Method for obtaining cation exchange resin from waste solutions of the sulfite cellulose industry. Class 39, No. 173952 SOURCE: Byulleten izobreteniy i tovarnykh znakov, no. 16, 1965, 85 TOPIC TAGS: cation exchange, resin, sulfite waste liquor, cellulose ABSTRACT: This Author Certificate presents a method for obtaining cation exchange resin from waste liquor of the sulfite cellulose industry (alcoholic sulfite, malt, and yeast brew). To reduce the cost of mammfacture, the waste malt solutions are freed from the base by cationation and concentrated by evaporation at a temperature of 90-100C until the dry materials content reaches 50%. The mixture is heated to dryness and condensed at the same temperature until the resin gains the desired degree of swelling. SUBM DATE: OlMar61	ACC NR: AP5025040 SOURCE CODE: UR/0286/65/000/016/0085/0085	
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degree of swelling. SUB CODE: 07, II/ SUBM DATE: OlMar61	freed from the base by cationation and concentrated by evaporation at a temperatur	
mma : #13 192 2.678 CC7	degree of swelling.	
Card 1/1 UDC: 541.183.123.2:678.557		
	Card 1/1 UDC: 541.183.123.2:678.557	

BERMAN, I.A.; SERGEYEVA, Ye.G.

X-ray study of diseases of the maxillodental system. Stomatologiia
35 no.5:56-57 S-0 '56 (MLRA 10:4)

1. Iz Kurskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach
A.M. Petroy)

(THETH--RADIOGRAPHY) (JAWS--RADIOGRAPHY)

BERGMAN, I.A., SERGEYEVA, Ye.G.

New method for X-raying impacted teeth in the upper jaw. Vest-rent. i rad. 33 no.5:95-96 S-0 '58 (MIRA 11:11)

1. Iz Kurskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach E.P. Skripkin).

(JAWS--RADIOGRAPHY)

SERVE FEVA LE

SARGEYEVA, YE. I., (Major of the Medical Service) and FRAYMAN, YA. E., (Lieutenant Colonel of the Medical Service)

"The Clinical Aspects of Peptic Ulcer in Young Persons and Generalization on the Experience of Application of Autohemotherapy in the Combined Treatment of Peptic Ulcer"

Voyenno-Meditsinskiv Zhurnal, No. 12, December 1961, pp 62-73

PAVLOVA, I.V.; SERGEYEVA, Ye.I.; MARTINOSOV, L.A.

Epidemiologic effectiveness of preventive inoculation against brucellosis with vaccines at the N packing house. Zhur.mikrobiol.epid. i immua. no.7:40-42 Jl '55. (MLRA 8:9)

(BHUCELLOSIS, prevention and control vacc. in Hussia, of packing house workers)

(VACCINES AND VACCINATION, brucellosis, in Russia, vacc. of packing house workers)

FRAYMAN, Ya. B., podpolkovnik meditsinskoy sluzhby; SERGEYEVA, Ye. I., mayor meditsinskoy sluzhby

Clinical aspects of paptic ulcer in young persons and the generalization of experience in using autohemotherapy in the compound treatment of peptic ulcer. Voen.-med. zhur. no.12: 67 D 161.

(PEPTIC ULCER) (BLOOD AS FOOD OR MEDICINE)

SERGEYEVA, Ye.S.

Elimination of trachoma as a widespread disease in the Yalchiki District of the Chuvash A.S.S.R. Kaz.med.zhur. 41 no.1:90-92 Ja-F *60. (MIRA 13:6)

1. Rayonnyy okulist Yal chinskogo rayona Chuvashskoy ASSR. (YALCHIKI DISTRICT--CONJUNCTIVITIS, GRANULAR)

CIA-RDP86-00513R001548120007-3 "APPROVED FOR RELEASE: 08/23/2000

15-57-1 341D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,

p 52 (USSR)

AUTHOR:

Sergeyeva, Ye. S.

TITLE:

Petrology of the Anzasskoye Iron Deposit (Petrologiya Anzasskogo zhelezorudnogo mestorozhdeniya) Authoris abstract of his dissertation for the degree of Candidata of Geological and Mineralogical Sciences, presented to the Tomskiy politekhn. in-t (Tomsk Polytechnic Institute), Tomsk, 1956

ABSTRACT:

The Anzasskoye iron deposit, found by the author in 1952, is located in the Tashtyp Region of the Kha-kasskaya Autonomous Oblast in Krasnoyarskiy Kray, 100 km southwest from the village of Abaz. This region is made up of metamorphic Precambrian shales which form an anticlanal fold trending to the northeast. The limbs of the anticline fall steeply to the northwest and the southeast. At the core of this anticlinal

Card 1/5

15-57-1-341D

Petrology of the Anzasskoye Iron Deposit (Cont.)

fold lies an elongated intrusion which runs counter to the general northeast trend. This intrusion is composed mainly of albite porphyries and albites, and, only near its periphery, of amphibolized gabbro. It extends 7.5 km in length and 350 m to 900 m in width. Sericite-chlorite schists are developed in the central part of the region along the northwestern and the southeastern contacts of the intrusion; they consist of sericite, chlorite, epidote, quartz and albite. Remnant albite porphyroblasts and also remnant magnetite porphyroblasts can be found in some places. Sericite-epidote schists are associated with the sericite-chlorite schists, with one passing into the other and forming small lenses 2 m to 5 m thick. sericite schists gradually pass into quartzites which extend into the sericite-chloride schists and form two fully continuous layers as well as numerous fine lenses. Limestones usually occur between the quartzites and actinolite schists; the existence of intermediate stages between these last two rocks is possible. Actinolite schists overlie the sericite-chlorite ones; they contain an admixture of epidote, sphene, actinolite and magnetite. Quartz-biotite schists Card 2/5

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Petrology of the Anzasskoye Iron Deposit (Cont.)

consist of quartz, biotite and of an insignificant admixture of albite, garnet, epidote, magnetite and amphibole; original stratification is preserved in some parts of these schists. In many cases it is impossible to determine the composition of these rocks. the alterations in the Precambrian rocks are associated with the regional metamorphism. The intrusion was apparently formed along a slowly opening fault, and developed in several stages. stage was characterized by the appearance of gabbroidal magma. This was followed by rejuvenation of the fault and intrusion of the next type of magma which produced the albite porphyries. Albites occurred also during the last stage, and now constitute a large portion of the intrusion. Amphibole gabbro consists of plagioclases An55 to 60, trarely An70 to 75 (40-45 percent of the rock) which are often representations. scapolitized, of amphibole which replaces diopside and, partially, plagioclase, and of biotite which replaces amphibole. Secondary minerals (amphiboles, magnetite, biotite, epidote, scapolite) constitute 50 to 60 percent of the rock. Amphibole replacing pyroxene Card 3/5

15-57-1-341D

Petrology of the Anzasskoye Iron Deposit (Cont.)

corresponds in its composition to actinolite and is, in turn, replaced by riebeckite. Albitite porphyries consist of albite with a negligible admixture of green actinolite, epidote, biotite, quartz and sulfides; albite constitutes 75 to 85 percent of the entire rock. These albitite porphyries are intersected by albitite which occurs in veins including numerous fragments of albitite porphyries. Albitites form a large part of the Anzasskaya intrusion. They consist primarily of plagioclases are almost free of colored components which normally appear as secondary minerals. Albite comprises 90 to 99 percent of albitites. Magnetite occurs in the form of fine dust throughout the entire mass of fractured albitites. Microcline granites occur in the northwestern and in the central part of the intrusion and also in the weathered-out deposits; for this reason it is difficult to determine their relation to the intrusion. The author believes that all the rocks of the Anzasskaya intrusion represent the products of basaltic magma. Structures of albite rocks are commonly allotriomorphically and prismatically granular and Card 4/5

15-57-1-341D

Petrology of the Anzasskoye Iron Deposit (Cont.)

sometimes porphyritic. There are no indications of the metasomatic origin of albite. The Anzasskaya anomaly extends for nearly 5 km. Judging by the character of magnetic anomalies, the ore content and the size of the ore body increases to the northeast and diminishes to the southwest. This formation lies in a fault zone and its ore to the southwest. This formation lies in a fault zone and its ore bodies have the form of lenses. Fractured rocks in the vicinity of bodies have been thinly filled with the ore material. The these lenses have been thinly filled with the ore material. The ores of the Anzasskiy district are dense and consist of magnetite ores of the Anzasskiy district are dense and consist of magnetite ores of the Anzasskiy district are dense and consist of magnetite ores were the first to pyrite and nonmetallic minerals. Magnetite ores were the first to pyrite and nonmetallic minerals. Magnetite and actinolite. Riebeckite be formed and were followed by scapolite and actinolite. Riebeckite and biotite were the last to appear. Iron content varies from 40 to 62.5 percent and from 27 to 40 percent.

ASSOCIATION: Tomskiy politekhn. in-t (Tomsk Polytechnic Institute) S. P. B. Card 5/5

SERGEYEVA, Ye.3.; BOGNIBOV, V.I.; KHALFIN, S.L.

Age of the Kogtakh gabbro-monzonite-syenite complex. Geol.i geofiz. (MIRA 15:4)

no.2:87-94 '62.

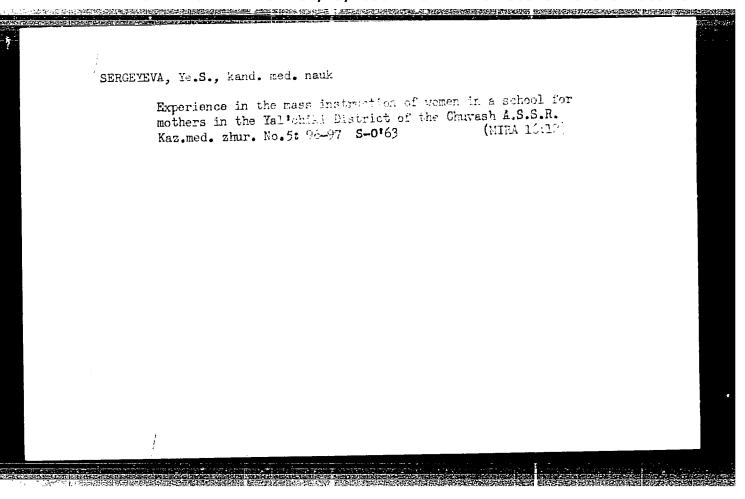
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Kuznetsk Ala-Tau---Minerals)

1016. A.C. AMBETEVA, 10.5., ROSCVALICHUE, M.la., tekhnik

Deten for a defectless production of goods. Tekst. prom. 25
no.5.4-6 My 165.

1. Direktor Bryanskogo kamwolinogo kombinata (for Illin).
3. hatnalinik otdela truda i zarabotnoy platy Bryanskogo kamwolinogo kombinata (for Serseyeva).



SERCEYEVA, Ye.S.

3ome characteristics and origin of the Ulen'-Tuim granitoid complex. Trudy first. geol. 1 geofiz. Sib. otd. AN SSSR no.33: (MERA 17:11)
145-150 :63.

SERGEYEVA Ye.V.: DENISOVA, I.S., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Environs of Moscow; tours for sightseers and tourists] Podmoskov'e; ekskursii i turistskie marshruty. Izd. 2-ce, perer. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 386 p. (MLRA 10:1) (Moscow Province-Description and travel--Guidebooks)

SERGEYEVA, Ye.V.

Phagocytic activity of leukocytes in certain infectious diseases in children [with summary in English]. Pediatriia 36 no.12:59-64 D '58. (NIRA 12:1)

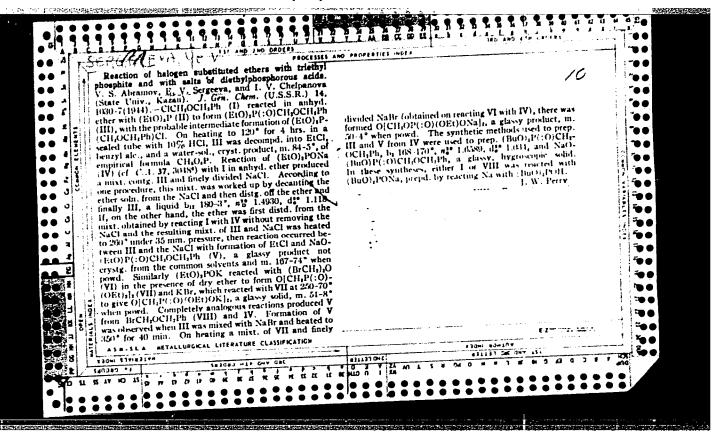
1. Iz kliniki destkikh infektsionnykh bolezney (zav. - prof. D.D. Lebedev) II Moskovskogo meditsinskogo instituta.

(COMMUNICABLE DISRASES, in inf. & child phagocytic activity (Rus))

(PHAGOCYTOSIS, in various dis. phagocytic activity in commun. dis. in child (Rus))

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"The Action for Malosthers of Triethylphosphite and on Salts of Disthylphosphorous Acid," Thur. Obshch. Khim., 14, Nos. 11-12, 1944. Nor., Lab. Organic Chemistry, Kasan State Univ. im. V. I. Ul'yanov (Lenin), -1943-.



L 39975-65 EPA(s)-2/EWP(k)/EWP(z)/EWA(c)/EWT(m)/EPA(bb)-2/EWP(b)/T/EWA(d)/EWP(v)/EWP(t) Pf-4/Pt-10/Pad IJP(c) JW/MJW/JD/HM/HW/CS

ACCESSION NR: AT4048087

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69

AUTHOR: Shinyayev, A. Ya.; Bondarev, V. V.; Sergeyeva, Ye. V.

B+1

TITLE: Investigation of mutual diffusion of titanium with copper and other metals in soldered joints / 27 27

SOURCE: Soveshchaniye po metallurgii, metallovedeniyu i primeneniyu titana i yego splavov. 5th, Moscow, 1963. Metallovedeniye titana (Metallography of titanium); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 289-293

TOPIC TAGS: titanium, titanium diffusion, titanium copper diffusion, titanium silver diffusion, titanium chromium diffusion, titanium soldering

ABSTRACT: The authors' previous publications have shown that the strength of soldered titanium joints is determined by the phase structure of the diffused layer formed between the titanium and the protective galvanic coating during soldering. Attempts were therefore made to determine the mutual diffusion of titanium and ther metals between 200 and 800C in order to evaluate the service life of soldered joints. The tests were made with silver, copper, nickel, Co Ni alloy (70% Co by weight), chromium, rhodium and rhenium on titanium and AT3, AT4, VT1, VT4, VT5 and

Card 1/3

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ACCESSION NR: AT4048087

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other titanium alloys. The samples were first etched in 40% sulfuric acid at 80±20 for 10-40 minutes. The kinetics of the process of mutual diffusion were then studied by calculating the rate of mutual diffusion as a function of the working temperature and by finding the phases formed between the titanium and metals dissolved in the titanium. Microscopic analysis was used to observe the mutual diffusion. At temperatures up to 400C, there is almost no diffusion. At 500C, mutual diffusion is observed between titanium and copper, and titanium and silver. Noticeable diffusion between titanium and Ni or Ti and the Co-Ni alloy begins only at temperatures above 600-700C, and for the Cr coating - above 700C. At these temperatures, the service life of soldered joints drops sharply. The service life can also be evaluated by determining the chemical composition of the diffusion zone. This is done by radioactive techniques. The sample is located on a plate which slides along slots made in a holder, and the radiation is registered by a TM-20 meter located above the upper screens of the holder. By means of curves plotted according to the meter readings, and knowing the attenuation coefficient in pure components and in a two-component medium, it is possible to find the distribution of diffused elements in the diffusion zone. The results of this investi-

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ACCESSION NR: AT4048087

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gation allow one to conclude that the process of mutual diffusion of titanium with other elements develops at the following temperatures: silver and copper - above 500C, Co-Ni alloy - above 600C, chromium - above 700C. The formation of large (0.2-0.5 micron) zones of a second phase due to micro-cracks in the diffusion zone of a Ti-galvanic coating at working temperatures leads to abrupt weakening of the soldered joint and its failure. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 15Ju164

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 001

Card 3/3 MB

LEVINA, S.I.; SERGEYEVA, Yu.V.

Pathogenesis of primary hypertension of the lesser circulation. Kardiologiia 4 no.6:75-78 N-D '64. (MIRA 18:8)

1. Gospital'naya terapevticheskaya klinika (zav. - doktor med.nauk P.N.Yurenev) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova i Gorodskaya klinicheskaya bol'nitsa Nr. 64 (glavnyy vrach G.V.Rodygina).